

CLAIMS

1. A steam cooker, comprising:
 - a steam generator for generating steam;
 - 5 a steam temperature-raising device for raising a temperature of steam coming from the steam generator;
 - a heating chamber provided with a ceiling steam outlet on its ceiling side, in which an object to be cooked is heated by steam supplied from the steam temperature-raising device via the ceiling steam outlet,
 - 10 said steam temperature-raising device including:
 - a tray-shaped case having a recessed part which has a sidewall provided with a steam supply port through which steam from the steam generator enters the
 - 15 recessed part, the recessed part having a planar shape that is roughly axisymmetrical with respect to a center line of a steam flow entering through the steam supply port, the tray-shaped case being placed, with an opening of the recessed part directed downward, on the heating chamber at
 - 20 the ceiling steam outlet;
 - a heater placed in the recessed part such that a planar shape of the heater is roughly axisymmetrical with respect to said center line; and
 - a spiral heat radiation fin wound around the
 - 25 heater and having a fin pitch of 10 mm or less.

2. The steam cooker according to claim 1, wherein
 a plurality of steam outlets for supplying steam
into the heating chamber sideways are provided, in roughly
5 axisymmetrical arrangement with respect to said center line,
in sidewalls facing each other across said center line of
the recessed part of the tray-shaped case and on the
opposite side of the steam supply port.
- 10 3. The steam cooker according to claim 1, wherein
 a sidewall on the opposite side of the steam
supply port of the recessed part of the tray-shaped case is
inclined with respect to a plane roughly perpendicular to
said center line.
- 15 4. The steam cooker according to claim 1, wherein
 the planar shape of the recessed part of the
tray-shaped case is a generally pentagonal shape having
three sides forming a U-shape and two sides continuous with
20 both ends of the U-shape of the three sides and forming a
generally V-shape bent outward, and
 the steam supply port is provided in a sidewall
corresponding to a central one of the three sides forming
the U-shape of the recessed part of the tray-shaped case.

5. The steam cooker according to claim 1, wherein
 the planar shape of the recessed part of the
tray-shaped case is a shape having three sides forming a U-
shape and an arc-shaped outer periphery that is continuous
5 with both ends of the U-shape of the three sides and curves
outward, and

 the steam supply port is provided in a sidewall
corresponding to a central one of the three sides forming
the U-shape of the recessed part of the tray-shaped case.

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6. The steam cooker according to claim 4, wherein
 each of corners of the recessed part of the tray-
shaped case has a curved surface so that adjacent sidewalls
are smoothly continuous with each other.